## WHAT IS CLAIMED IS:

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1. A computer-aided design (CAD) system having a modeling mechanism that uses both two-dimensional and three-dimensional views of a solid object in an integrated manner, comprising:

two-dimensional drawing generating means for generating a two-dimensional drawing that represents a three-dimensional model being defined as a collection of three-dimensional geometric features;

two-dimensional drawing display means for displaying the generated two-dimensional drawing on a monitor screen:

graphic element selection means for selecting a graphic element contained in the two-dimensional drawing being displayed on the monitor screen; and

three-dimensional feature selection means for identifying one of the three-dimensional geometric features that corresponds to the graphic element selected by the graphic element selection means, and setting the identified geometric feature to a selected state for further manipulation.

2. The CAD system according to claim 1,
25 wherein the two-dimensional drawing generated by the twodimensional drawing generating means is a set of
orthographic projection views of the three-dimensional

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model.

3. The CAD system according to claim 2, wherein:

the two-dimensional drawing display means displays a projection view of each geometric feature on the monitor screen, according to a line of sight defined for the two-dimensional drawing; and

the graphic element selection means selects a graphic element in the projection views of the geometric, features provided by the two-dimensional drawing display means.

4. The three-dimensional CAD system according to claim 1, wherein:

the two-dimensional drawing generating means produces a two-dimensional view of each of the three-dimensional geometric features constituting the three-dimensional model, as well as maintains data about associations between graphic elements contained in the produced two-dimensional views and the three-dimensional geometric features; and

the three-dimensional feature selection means identifies one of the three-dimensional geometric features that corresponds to the graphic element selected by the graphic element selection means, based on the data maintained by the two-dimensional drawing generating means.

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- 5. The three-dimensional CAD system according to claim 1, wherein the graphic element selection means makes the identified geometric feature appear with emphasis, in contrast to other features shown in a three-dimensional view on the monitor screen.
- 6. A computer-readable medium storing a CAD program which provides a modeling mechanism using both two-dimensional and three-dimensional views of a solid object in an integrated manner, the CAD program causing a computer to function as:

two-dimensional drawing generating means for generating a two-dimensional drawing that represents a three-dimensional model being defined as a collection of three-dimensional geometric features;

two-dimensional drawing display means for displaying the generated two-dimensional drawing on a monitor screen;

graphic element selection means for selecting a graphic element contained in the two-dimensional drawing being displayed on the monitor screen; and

three-dimensional feature selection means for identifying one of the three-dimensional geometric features that corresponds to the graphic element selected by the graphic element selection means, and setting the identified geometric feature to a selected state for

further manipulation.